

KLABUNOVSKIY, Ye.I.

7 *7* *7*

"Catalytic hydrogenation of tryptone derivatives. I. A. Zelenina, N. V. Kabanova, Ye. I. Klabunovskiy, D. Zemlyanikin, *Zh. Org. Chem., Moscow, Tbilisi Akad. Nauk SSSR* 11(1), 671-4 (1965).—Hydrogenation of 2,3-dihydrotryptone and 1',4'-quinone over Raney Ni at atm. pressure and 45° (ca.), after uptake of 8 moles of H, $C_6H_6O_2$, toluene, dec. temp. 204-7° (*trans*-diamine) the reaction curve showed a sharp break after taking of 1 mole H. The product treated with 40% HgO in hot AcOH isomerized to tryptenehydroquinone in 75% yield, decomp. 230-42°, further oxidation of which by $K_2Cr_2O_7$ in hot AcOH gave tryptenequinone (70%), decomp. 262° (*decolor.*, decomp. 245-7°). Hydrogenation of the latter under the same conditions utilized 1 mole H, yielding tryptenehydroquinone, decomp. 238°. Identical with the above specimen. The probable mechanism of adsorption and hydrogenation of the above substances is not yet discussed (cf. Adams, et al., *CA* 68, 2071a).

O. M. Krasnoshchuk

PM ✓

KLABUNOVSKIY, E. I.

"Die Assymetrische Katalyse," a paper presented at the International Symposium on the Origin of Life, Moscow, 19-24 Aug 1957.

KLABUNOVSKIY, Ye. I., AND TERENT'EV, A. P.

"Die Rolle der Dysimetrie der Molekulen bei der Entstehung des Lebenden Stoffes," a paper presented at the International Symposium on the Origin of Life on the Earth, Aug 57, Moscow.

*Thermodynamical determination of bond energies
Energy of the dissociated bond in tetrahedral and regular
silicates A. A. Ilyashuk, E. S. Lutsenko, M. V. Borsig
and V. V. Gulyayev*

APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722930005-3"

KLABUNOVSKIY, Ye.I., kandidat khimicheskikh nauk.

Organic catalysts modeling the stereospecific action of enzymes.
Khim. nauka i prom. 2 no.2:197-202 '57. (MIRA 10:6)
(Enzymes) (Catalysts) (Stereochemistry)

KLABUNOVSKIY, Ye.I.

PA - 3150

AUTHOR

BALANDIN A.A. Member of the Academy, KLABUNOVSKIY Ye.I.

TITLE

On the Stereochemistry of Catalytic Active Complexes.
(O stereokhimii kataliticheskikh aktivnykh kompleksov -Russian)

PERIODICAL

Doklady Akademii Nauk SSSR, 1957, Vol 113, Nr 3, pp 585-587 (USSR)

Received 6/1957

Reviewed 7/1957

ABSTRACT

With reference to the author's work in D, 1956, Vol 110, Nr 4, the present paper explains the process of reaction. For this purpose the hydrogenation of the compound (I) is carried out. (I) is 2,3-dihydro-(2,3; 5; 6^a)(5,6; 5^a,6^b) (7,8; 5^a, 6^a)-tribenzo[bicyclo-(2,2,2)-octadien-5,7-dion-1',4'. Hydrogenation was carried out at 45° and an atmospheric pressure above the catalyst in freshly distilled dioxane (peroxides are lacking). The experimental method and the production of the catalyst is described in D, 1956, Vol 110, Nr 4. Investigation showed that the substance obtained is the product III: 1',2',3',4',5',6'-hexahydro-(2,3;5',6')(5,6; 5^a,6^b) (7,8; 5^a, 6^a)-tribenzo[bicyclo-(2,2,2)-octadien-5,7-dion-1',4'. This compound has as yet not been described in publications. In pure form these are yellow crystals with a melting point at 182 - 30. This product showed no reaction to chinolide structure, did not react to an olefine compound, formed no phenylurethane, and did not react to maleinanhydride. On the occasion of the reaction with 2,4-dinitrophenylhydrazine the product (III) gave a well-crystallizing mono-2,4-dinitrophenylhydrazone with a

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On the Stereochemistry of Catalytic Active Complexes. PA - 3150
melting point at 185 - 8°. The multiplet theory makes it possible
to construct stereochemical models of active complexes of the in-
vestigated reactions. The structure of such models is described.
(With 2 illustrations and 6 citations from Slavic publications).

ASSOCIATION Institute for Organic Chemistry "N.D.Zelinskiy" of the Academy of
PRESENTED BY Science of the U.S.S.R.
SUBMITTED 4.10.1956
AVAILABLE Library of Congress
Card 2/2

KLABUNOVSKIY YE. I.

AUTHORS:

Balandin, A. A., Klabunovskiy, Ye. I., Kozina, . 62-1-3/29
M.P., Ul'yanova, O. D.

TITLE:

Thermochemical Detection of the Energies of Compounds
(Termokhimicheskoye opredeleniye energii svyazey). Report 1:
The Energies of the Compounds Sn - C in Tetramethyl and
Tetraethyl Tin (Soobshcheniye 1. Energii svyazey Sn - C v
tetrametil- i tetraetilolole)

PERIODICAL:

Izvestiya AN SSSR Otdeleniye Khimicheskikh Nauk, 1958, Nr 1,
pp. 12-17 (USSR)

ABSTRACT:

The data in technical literature concerning the energies of compounds (used in the computation of the adsorption potentials of the catalysts) are insufficient. Above all no publication gives concrete data on the energies of the compounds C, H, C, N with elements belonging to the composition of the most important catalysts. Therefore it was important to start a systematical investigation of the compound energies necessary for the catalysis also by thermo-chemical way. In the present paper the authors report on the detection of the combustion heat of tetramethyl- and tetraethyl-tin, the heat formation from elements, and the energies of the compound Sn - C (tables 1 and 2). The found data give more precise

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Thermochemical Detection of the Energies of Compounds
Report 1: The Energies of the Compounds Sn - C in Tetraethyl Tin 62-1-3/29

rules governing the homologous series than do those hitherto found by researchers. Furthermore it was shown that the applied calorimetric methods can also be used for the detection of the combustion heat of the metal-organic compounds with rather great precisionness. (Tables 3,5,6). Furthermore each investigated compound demands a special approach to the methods of its combustion, and therefore it is necessary to carry out numerous preliminary experiments. Furthermore the spectrum of the combination dispersion of tetraethyl-tin was detected for the first time. There are 6 tables and 24 references, 7 of which are Slavic.

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AS USSR and State University imeni M. V. Lomonosov, Moscow
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Card 2/2

1. Metalorganic compounds-Combustion 2. Compounds-Energy measurement
3. Calorimeters-Applications 4. Tetramethyl-tin-Thermochimistry
5. Tetraethyl-tin-Thermochimistry

AUTHOR: Klubunovskiy, Ye. I. (Torcon) 74-27-3-3/7

TITLE: The Distribution of Racemates by Means of the Adsorption
(Adsorbsionnoye razdeleniye ratsematov)

PERIODICAL: Uspokhi khimii, 1958, Vol. 27, Nr. 8, pp. 949-965 (USSR)

ABSTRACT: The present article mainly deals with the different cases of the distribution of the racemates (by means of the adsorption method) on synthetic and natural dissymmetric adsorbents which may be of organic or inorganic origin. The determination method of racemate distribution based on the formation of adhesion compounds (soyedineniya vklucheniya) takes a prominent place. The first section of the article deals with the distribution of the racemates under the influence of the optically active solvent. In the second chapter the author discusses the distribution of the racemates by asymmetric adsorption. The latter takes place either by the distribution of the racemates on the synthetic dissymmetric adsorbent or by means of the asymmetric adsorption on natural dissymmetric adsorbents. In the present case the adsorption on albumin or on carbohydrates is concerned. This adsorption method on natural dissymmetric adsorbents is discussed in detail (Refs 23-68).

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The Distribution of Racemates by Means of the Adsorption

The third chapter deals with the distribution of the racemates by means of the formation of adhesion compounds (soyedinenniy vkljucheniya). It is stressed that the recently discovered method of the racemate distribution (based on the direct selective crystallization of the adhesion compound) is of great theoretical and practical importance. In this chapter some papers dealing with this topic are discussed (Refs 69-76). In the fourth chapter the author discusses the racemate distribution on optically active quartz. A number of papers dealing with the asymmetric adsorption on quartz are discussed (Refs 77-87), some of which are dealing with the realization of the selective adsorption of silicic acid separated from living animal organism (Refs 85, 86). The adsorption methods given for the distribution of the racemates prove their increasing importance for preparative and analytical chemistry. The use of synthetic dissymmetric adsorbents seems to offer the best prospects as in a number of cases they permit the complete distribution of the racemates. A recently developed method also attracted great attention: The distribution of racemic amino acids on paper cellulose. There are 6 tables and 87 references, 5 of which are Soviet.

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SOV/74-27-8-3/7

The Distribution of Racemates by Means of the Adsorption

1. Racemic acid esters--Adsorption 2. Adsorbents--Performance 3. Organic
solvents--Performance

Card 3/5

5.3400

77076
SOV/62-59-12-20/43

AUTHORS: Nazarov, I. N., Kravchenko, N. A., Klabunovskiy, Ye. I.

TITLE: Concerning the Catalytic Synthesis of Isoprene, Based on Gaseous Hydrocarbons. Communication 1. The Study of Possibility Isoprene Synthesis from Acetylene

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1959, Nr 12, pp 2171-2176 (USSR)

ABSTRACT: Several catalysts were tested for the condensation of acetylene with propylene at atmospheric pressure. Pure catalysts without support were inactive. The following supported catalysts were used. (1) $\text{Fe}_2\text{O}_3 + \text{MoO}_3/\text{SiO}_2$.

Silica gel was impregnated with an aqueous solution of ammonium molybdate. The excess solution was removed. Silica gel was dried at 110° and was boiled in a 5% solution of $\text{Fe}(\text{NO}_3)_3$, for 10 minutes, dried and calcinated

at 550° . The catalysts 2-7 were prepared similarly. (2) $\text{CoO} + \text{MoO}_3/\text{SiO}_2$. (3) $\text{SnO} + \text{MoO}_3/\text{SiO}_2$. (4) $\text{TiO} + \text{MoO}_3/\text{SiO}_2$.

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Concerning the Catalytic Synthesis of
Isoprene, Based on Gaseous Hydrocarbons.
Communication 1. The Study of Possibility
Isoprene Synthesis from Acetylene

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(5) CuO + MoO₃/SiO₂. (6) MgO + MoO₃/SiO₂. (7) CaO +
+ MoO₃/SiO₂. The catalysts: (8) MoO₃/ASC, (10) WO₃/ASC,
(11) TiO₂ + WO₃/ASC, (12) WO₃ + TiO₂/ASC were prepared
with aluminum-silicate catalyst (ASC). Beside the
above catalysts, (9) WO₃/SiO₂, (13) CaO/SiO₂, and ASC
were also tested. Condensation of acetylene with propylene
over above catalysts was carried out at 350-450° forming
mostly aromatic hydrocarbons in 3.6 to 63.6% yield
(benzene, toluene, o-, m-, and p-xlenes). The forma-
tion of isoprene and piperylene was not observed. A. E.
Agronomov took part in this work. There are 3 tables;
and 8 references, 2 German, 2 French, 3 U.S., 1 U.K.,
The 4 U.S. and U.K. references are: C. H. Holder, N. J.
Crauford, U.S. Pat. 2388916 (13, 11, 1945). B. W. Ipatiev,
H. Pines, U.S. Pat. 2410445 (25, 11, 1942).

Card 2/3

Concerning the Catalytic Synthesis of
Isoprene, Based on Gaseous Hydrocarbons.
Communication 1. The Study of Possibility
Isoprene Synthesis from Acetylene

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SOV/62-59-12-20/43

H. Plauson, J. A. Vieille, U.K. Pat 156116 (30, 12, 1920);
Chem. Abstrs. 15, 1727 (1921).

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Zelinskogo Akademii nauk SSSR)

SUBMITTED: May 7, 1958

Card 3/3

51190

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SOV/76-33-11-17/47

-5(4)
AUTHORS:Balandin, A. A., Klabunovskiy, Ye. I.

TITLE:

Stereochemical Investigation of the Mechanism of Catalysis

PERIODICAL:

Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 11, pp 2480-2484
(USSR)

ABSTRACT:

The catalytic hydrogenation of several tryptcene derivatives was carried out with nickel, as these have a complicated steric configuration and therefore they do not adjust themselves easily to the catalyst surface, which renders them suitable for this study (from the viewpoint of the multiplet theory). The application of stereochemical principles together with those of the multiplet theory permits the recording of models of intermediary active complexes (Figs 2,3). It was shown that, despite complicated configuration of the original substances which prevent the laying on a plane catalyst surface, hydrogenation occurs already at 45° and 1 atm. Therefore the catalysis occurs on the elevations of the catalyst, besides hollows where the protruding molecule parts deposit in the hollows. The models of the compounds investigated permit evaluation of the depth of these hollows with a minimum of ✓

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Stereochemical Investigation of the Mechanism of Catalysis

3.17 Å and a maximum width of 4.8 Å. Thus, a method is obtained for the determination of the microrelief of the catalyst surface. There are 3 figures and 9 references, 6 of which are Soviet.

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Card 2/2

5(2,3)

AUTHORS:

Balandin, A.A., Academician,

SOV/20-127-3-21/71

Klabunovskiy, Ye.I., Petrov, Yu.I.

TITLE:

CONFIGURATION INTERRELATIONS IN STEREOSPECIFIC CATALYSIS

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 3,
pp 557 - 560 (USSR)

ABSTRACT:

The multiplet theory of catalysis shows the existence of a certain structural homology between the reacting molecule and the fine structure of the catalyst surface. These relations were investigated by several examples of the heterogeneous catalysis (Refs 1-3). Henceforth they have to be investigated in the field of asymmetric micro-heterogeneous catalysis, since the principles of the structural and energy correspondence of the multiplet theory was also applied to fermentative catalysis (Refs 4-6). The effectiveness of the stereospecific catalysis depends on the degree of the structural correspondence. Therefore it is of interest to enlarge the knowledge about reactions catalyzed by micro-heterogeneous asymmetric catalysts

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Configuration Interrelations in Stereospecific Catalysis SOV/20-127-3-21/71

(ferment samples). Skita catalyst (colloidal platinum or palladium with gum arabic as protective colloid) was chosen as such (Ref 7). These catalysts were produced according to reference 9 which was altered according to reference 10. Phenyl- and α -naphthyl-glyoxylic acids were chosen as initial compounds which develop oxy-acids with a considerable optic activity namely: mandelic acid and α -naphthyl-glycollic acid. These turn in opposite direction, but belong to the same configuration series. Figure 1 shows kinetic curves of the hydrogenation phenyl-glyoxylic acid and of the dioxime in coordinates: reaction rate versus - time and rate versus - degree of transformation. Table 1 shows results of characteristic experiments with regard to the optical activity. The comparatively high value of the specific optic activity of the developed diamine is striking. The results obtained show certain configuration interrelations between the catalyst and the reacting molecules. In the cases investigated the protective colloid (gum arabic) does not seem to act as asymmetric carrier, nor as optically active solvent. The asymmetric carrier chosen by the authors has a selective effect during catalysis, since it favors the

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Configuration Interrelations in Stereospecific Catalysis SOV/20-127-3-21/71

development of an acid with a D-configuration. The above results prove a great configuration correspondence between the asymmetric catalyst (rather the asymmetric carrier) and the spatial structure of the reacting molecule (Ref 1). Special experiments proved that the protective colloid also acts as asymmetric carrier (also Ref 2). The results obtained finally prove that the metal particle is not in the solvate cover of the micelle, but immediately contacts the asymmetric molecule of the protective colloid. The course of an asymmetric adsorption and of such a catalysis thus become possible. There are 1 figure, 1 table, and 13 references, 11 of which are Soviet.

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SUBMITTED:

May 18, 1959

Card 3/3

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SOV/20-129-1-28/64

S(2,3) 5.1190, 5.3100

AUTHORS: Balandin, A. A., Academician, Klabunovskiy, Ye. I.

TITLE: Stereochemical Investigation of Active Centers of the Catalyst

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 129, Nr 1,
pp 102 - 104 (USSR)

ABSTRACT: Conclusions on the structure of the catalytically active catalyst surface are rendered possible by the investigation of the catalysis of molecules with complicated configuration. If the size and structure of the reacting molecules is varied, the absolute dimensions of centers protruding from this surface and their statistical distribution can be determined. Thus hydrogenation of the tryptic (I) (2,3-(anthrylene-9',10')-5,6-(anthrylene-9",10")-cyclohexene-2-dione-1,4) is of interest (see Diagram). (I) was synthesized by condensation of tryptic quinone (II) with anthracene by boiling it for 5 hours in anhydrous ethylbenzene. The constants and transformations of (I) (Ref 2) are shown. (I) was hydrated under normal atmospheric pressure and at 45° over the nickel catalyst skeleton in freshly distilled dioxane free from peroxide (see Diagram). The hydrogenation product (IV) was recrystallized. Its melting point is

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Stereochemical Investigation of Active Centers
of the Catalyst

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Sov/20-129-1-28/64

221°, its empiric formula $C_{34}H_{24}O_2$. Figure 1 shows the variation in the hydrogenation rate of (I) depending on the reaction process, as well as the hydrogenation curve of tryptic quinone. The investigation of the structures of (I) and (IV) is difficult. For this reason, apparently, the analysis results deviate from the theoretical values. Yu. P. Yegorov replotted the infra-red spectra. They showed an ethylene bond in the case of (I) which is missing in the hydrogenation product (IV). Moreover, the frequencies typical of the O-H bond are missing in the spectrum of (IV). Hence it appears that no isomerization of (IV) to a dienediol (V) took place. Hydrogenation of (I) seems to lead to the formation of dihydron-diketone (IV) without by-products. Figure 2 gives a schematic representation of the position of the molecule of compound (I) on the surface of the catalyst. In connection with the hydrogenation of such a compound only planar orientation of the cyclohexenedione ring on this surface seems to be possible. The height of an active center on the surface where hydrogenation of (I) takes place is determined from the true scale of

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Stereochemical Investigation of Active Centers
of the Catalyst

the model of the active complex. The fact that this reaction takes place at all (although at a low rate) indicates that the height mentioned amounts to at least 3.17 Å. The size of the active center surface can be approximately estimated on account of the distance between the meso positions on the model (Fig 2). It cannot amount to more than 4.8 Å. The stereochemical model of the intermediate complex discussed here differs considerably from the hydrogenation of tryptic quinone investigated previously. The number of active centers is considerably reduced due to the surface orientation of the molecule and the steric hindrance of the reaction; hence the low rate of reaction. There are 2 figures and 2 references, 1 of which is Soviet.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskogo of the Academy of Sciences, USSR)

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SUBMITTED: July 9, 1959

Card 3/3

PHASE I BOOK EXPLOITATION SOV/4289

Klabunovskiy, Yevgeniy Ivanovich

Asimmetricheskiy sintez (Asymmetric Synthesis) Moscow,
Goskhimizdat, 1960. 229 p. Errata slip inserted. 4,000
copies printed.

Ed.: E. I. Budovskiy; Tech. Ed.: Ye. G. Shpak.

PURPOSE: This book is intended for students in advanced courses, aspirants, and scientists working in organic chemistry, biochemistry, and biophysics. It may be used as a handbook and methodological guide in asymmetric synthesis.

COVERAGE: The book contains a comprehensive review of material on asymmetric synthesis, being based on data published through 1958 and part of 1959. Catalysis and the resolution of racemates by the action of physical agents are also discussed. There are 9 figures, 33 tables, and 763 references: 75 Soviet, 306 English, 51 French, 16 Swiss, and 315 German. No personalities are mentioned.

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Asymmetric Synthesis

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Asymmetric Synthesis

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Asymmetric Synthesis

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78067
SOV/62-60-1-13/37

AUTHORS: Nazarov, I. N., Klabunovskiy, Ye. I., Kravchenko, N. A.

TITLE: Catalytical Synthesis of Isoprene From Gaseous Hydrocarbons. II. Synthesis of Isoprene From Propylene

PERIODICAL: Izvestiya Akademii nauk. Otdeleniye khimicheskikh nauk, 1960, Nr 1, pp 73-79 (USSR)

ABSTRACT: Technical propylene was dimerized to 2-methyl-2-pentene. The alumina-silica catalyst, containing small amounts of oxides of magnesium, copper, and iron, was treated with solutions of aluminum sulfate or titanium sulfate. The yield of dimer, at 300-360° and atmospheric pressure, was 38.7% of the polymeric reaction products. The dimer was converted into isoprene in a quartz tube at 750°, $T = 0.09$ sec, 306 mm, in 17.7% yield (the ratio, nitrogen carrier: dimer was 1:0.33). There are 3 tables; 15 references, 1 U.K., 4 Soviet, 10 U.S. The 5 most recent U.S. references are: U.S. Patents

Card 1/2

Catalytical Synthesis of Isoprene
From Gaseous Hydrocarbons. II

78067
SOV/62-60-1-13/37

2404056 (1946); 2446619 (1948); 2507864 (1950); 2470688
(1949); 2476512 (1949).

ASSOCIATION: N. D. Zelinskiy Institute of Organic Chemistry of
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organicheskoy khimii imeni N. D. Zelinskogo Akademii
nauk SSSR)

SUBMITTED: May 7, 1958

Card 2/2

S/195/60/001/001/007/007
B015/B060

AUTHOR: Klabunovskiy, Ye. I.

TITLE: All-Union Conference on Organic Catalysis in Moscow

PERIODICAL: Kinetika i kataliz, 1960, Vol. 1, No. 1, pp. 172-175

TEXT: The First Vsesoyuznaya konferentsiya po organicheskому katalizu (All-Union Conference on Organic Catalysis) was held in Moscow from November 16 to 20, 1959. It had been organized on the initiative of the Uchenyy sovet po problemam "Nauchniye osnovy podbora katalizatorov" (Scientists' Council for the Problem of the "Scientific Basis of the Selection of Catalysts") by the Institut organicheskoy khimii AN SSSR (Institute of Organic Chemistry of the AS USSR), the Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physicochemical Institute imeni L. Ya. Karpova) and the khimicheskiy fakul'tet MGU (Department of Chemistry of the MSU). Since the Gosudarstvennyy Komitet Soveta Ministrov SSSR po khimii (State Committee for Chemistry of the Council of Ministers USSR) intended to hold a conference on technical catalysis at the same time, the two conferences were combined. An attendance of 600 persons at the plenary meetings heard

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All-Union Conference on Organic Catalysis
in Moscow

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B015/B060

eight lectures on theoretical problems of organic catalysis and ten lectures on technical catalysis. The other 140 lectures were delivered in six sections: 1) investigation of catalysts; 2) polymerization and condensation reactions; 3) isomerization- and alkylation reactions; 4) hydrogen-, dehydrogenation-, and dehydrocyclization reactions; 5) hydration-, dehydration-, and hydrolytic reactions; 6) oxidation- and halogenation reactions. The Conference was opened by Academician V. A. Kazanskii who mentioned the research work done on organic catalysis. In the present report, the following Soviet lectures and lecturers are mentioned (contents are briefly indicated): Academician A. A. Balandin (IOKh AS USSR) "Structure of Molecules and Reactivity"; S. Z. Roginskii (IFKh AS USSR) with a lecture on the theory of catalysis; F. F. Vol'kenshteyn (IFKh AS USSR) on the "electron factors" in the kinetics of heterogeneous reactions; A. N. Terenin and L. M. Royev (LGU) on infrared spectra of the catalyst surface; N. P. Keyer (IFKh AS USSR) on the effect of electronic interaction on the activation energy of chemisorption; S. L. Kiperman and I. R. Davydova (IOKh AS USSR) on the determination of the binding energy; Ye. I. Kishinovskii (IOKh AS USSR) on the determination of the absolute configuration of molecules; M. A. Landau and V. V. Shchekin (INKhS AS USSR) on some

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B015/B060

rules governing catalytic activity. Regarding the lectures delivered at the sections, the following names are mentioned: Section 1: V. V. Voyevodskiy, V. B. Kazanskiy, Yu. I. Pecherskaya (IKhF AS USSR); S. Z. Roginskiy, M. I. Yanovskiy, E. Kh. Yenikayev, L. Ya. Margolis (IFKh AS USSR); D. I. Layner, N. M. Kagan (Giprotsvetmetobrabortka), V. V. Patrikeyev (IOKh AS USSR); V. M. Gryaznov (MSU); M. T. Rusov, V. M. Vlasenko (IPKh AS UkrSSR); A. A. Slinkin (IOKh AS USSR); O. D. Lyubarskiy, L. N. Ivanovskaya, O. G. Isayeva (Fiz.-khim. inst. im. L. Ya. Karpova) G. M. Zhabrova, V. I. Vladimirova, O. M. Vinogradova (IPKh AS USSR); A. M. Rubinshteyn (IOKh AS USSR); E. M. Kaganova, T. Ye. Shakhova, A. Ye. Panitkova (VNI Neftekhim); Kh. M. Minachev, G. V. Isagulyants, D. A. Kondrat'yev (IOKh AS USSR); I. D. Roshdestvenskaya (IOKh AS USSR); T. V. Antipina (MSU); M. P. Maksimova, V. E. Vasserberg (IOKh AS USSR); O. V. Krylov, Ye. A. Fokina (IPKh AS USSR). Section 2: B. A. Krentsel, A. V. Topchiyev (INKhS AS USSR); Ch. S. Karryyev, G. M. Panchenkou, S. V. Al'tshuler (INKh 1 GP im. I. M. Gubkina); Ye. G. Vol'pova, L. I. Ogleblina (GrozNII); Ya. T. Eydus (IOKh AS USSR); A. N. Bashkirov, Yu. B. Kagan, Yu. B. Kryukov, S. M. Loktev (INKhS AS USSR); B. A. Bolotov, P. M. Adrov (LGU); A. V. Top-

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chiyev, G. M. Tsiguro, G. I. Dmitriyeva (INKh i OP im. I. M. Gubkina).
Section 3: M. G. Bekauri, N. I. Shuykin, T. S. Shakarashvili (IKh AS
GruSSR); G. N. Maslyanskiy, N. R. Bursnan, S. A. Berkhan (VNI Neftekhim);
M. I. Ryskin, M. S. Nentsov (VNI Neftekhim); M. G. Gonikberg, I. I. Levit-
skiy, B. A. Kazanskiy (IOKh AS USSR); N. B. Turova-Polyak, I. Ye. Sosnina
(MSU); N. I. Shuykin, I. F. Bel'skiy (IOKh AS USSR); G. M. Panchenkov,
I. M. Kolesnikov (INKh i OP im. I. M. Gubkina); N. V. Rudenko, V. E. Turyay-
Polyak (MSU); R. M. Lagidze (IKh AS GruSSR); S. O. Mel'kanovitskaya,
I. P. Tsukervanik (IKh AS UzbSSR). Most of the lectures were delivered at
Section 4, among others by: L. O. Apel'baum, M. I. Temkin (Physicochemical
Institute imeni L. Ya. Karpov); A. Ya. Rozovskiy, V. V. Shchekin, Ye. V.
Pokrovskaya (INKhS AS USSR); L. N. Kachkina, G. K. Boreskov, G. N. Lyubarskii
(Physicochemical Institute imeni L. Ya. Karpov); D. V. Sokol'skiy et al.
(IKh AS KazSSR); A. A. Ponomarev, N. P. Maslennikova, N. V. Alakina
(Saratovskiy gos. universitet - Saratov State University); N. A. Vasyunina,
A. A. Balandin, S. V. Chepigo (IOKh AS USSR and N. O. VNIIG3); Chshan
Chzhao-lan', K. P. Lavrovskiy, A. L. Rozental' (INKhS AS USSR); D. A.
Bol'shakov, I. Ya. Tyuryayev (NIIM SK); I. L. Fridshteyn (Giprokauchuk);
V. S. Aliyev, A. P. Kasimova, Sh. K. Kyazimov, Ter-Sarkisov (INKhP)

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AS AzSSR); Ye. I. Karpeyskaya, A. A. Tolstopiatova, M. A. Rumyantseva,
Kh. M. Minachev; V. A. Ferapontov (IKh AS USSR); six lectures on dehydro-
cyclization - B. A. Kazanskiy, A. L. Liberman, I. Rozengart,
A. Z. Dorogochinskij, A. V. Lyutel, M. G. Mitrofanov (IKh AS USSR and
GrozNII); Kh. I. Areshidze (IKh AS GrusSSR); M. S. Belan'kiy, Ya. P. Skorupko
(Azerb. in-t neftekhimi - Azerbaydzhan Institute of Petroleum Chemistry);
K. A. Krupennikova (Kazakh.gos.un-t - Kazakh State University); 18 lectures
were delivered at Section 5: Ye. N. Piskunova, O. K. Boreskov, V. A. Dzin'ko
(Physicochemical Institute imeni L. Ya. Karpov); Yu. M. Bakshi, A. I.
Gel'bshteyn, M. I. Temkin (Physicochemical Institute imeni L. Ya. Karpov);
R. M. Flid (MKhT); V. I. Isagulyants (INKh i GP im. Gubkina); N. S.
Rabovskaya, G. A. Razuvayev, T. I. Andrianova, B. P. Bruna (IFKh AS USSR);
V. Stahishevskiy, A. A. Tolstopiatova (MSU); M. Ya. Yakushina (NIIGS). 20
lectures were delivered at Section 6: Yu. D. Kernos, B. L. Moldavskiy
(VNII Neftekhim); N. I. Popova, Ye. Ye. Vermel', V. N. Latyshev, F. A.
(VNII Neftekhim); L. Ya. Margolis, M. Ya. Rubanik, A. V. Gershin-
Mill'man (IKh VSF AS USSR); B. L. Moldavskiy, Yu. D. Kerios (VNII Neftekhim);
V. A. Slavinskaya, S. A. Giller, I. I. Ioffe (IKh AS LatSSR); M. I. Temkin,
N. V. Kul'kova (Physicochemical Institute imeni L. Ya. Karpov); L. Ya.

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Margolis, E. Kh. Yenikayev, O. V. Isayev, V. R. Linde (IFKh AS USSR);
G. P. Korneychuk, V. A. Royter, V. P. Ushakova (IFKh AS UkrSSR), N. V.
Klimova, A. I. Tishchenko, I. I. Ioffe (NIOPIK). Problems of technical
catalysis were discussed at the final plenary meeting. Among the lecturers
were: G. K. Boreskov and V. S. Chesarova (Physicochemical Institute imeni
L. Ya. Karpov); V. A. Royter (IFKh AS UkrSSR); M. G. Slin'ko (Institut
kataliza SO AN SSSR - Institute of Catalysis of the SO AS USSR); V. B.
Pal'kovskiy (MITKhT); I. I. Ioffe (NIOPIK); O. M. Todes (VITU VEP);
M. E. Aerov (NIISS); N. N. Shumilovskiy (MEI). In the course of the Con- ✓
ference, several organizational measures to be taken for the intensifica-
tion of work in the field of organic and technical catalysis were agreed upon
along with the necessity of a reference work indicating the applications
and properties of the principal catalysts. It was decided to hold an All-
Union Conference on testing methods of industrial catalysts for homogeneous
and oxidation catalysis in the near future. The foundation of the Institut
kataliza Sibirskogo otdeleniya AN SSSR (Institute of Catalysis of the
Siberian Department of the AS USSR) in Novosibirsk was noted with satis-
faction, and so was the publication of the new periodical "Kinetika i kataliz".

SUBMITTED: December 15, 1959

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S/030/60/000/02/031/040
B008/B008

AUTHOR: Klahnnevskiy, Ya. I., Candidate of
Chemical Sciences

TITLE: Problems of the Organic Catalysis

PERIODICAL: Vestnik Akademii nauk SSSR, 1960, Nr 2, pp 109-111 (USSR)

ABSTRACT: This is a report on the 1st All-Union Conference on the Organic Catalysis, held in Moscow from November 16 to 20. It was convened by the Institut organicheskoy khimii Akademii nauk SSSR (Institute of Organic Chemistry of the Academy of Sciences USSR) jointly with the Nauchno-issledovatel'skiy fiziko-khimicheskiy institut im. L. Ya. Karpova (Scientific Physico-chemical Research Institute imeni L. Ya. Karpova) and the khimicheskiy fakul'tet Moskovskogo universiteta (Department of Chemistry of Moscow University). About 600 delegates attended the Conference. 160 lectures were held altogether, 18 of them in plenary sessions. 6 of the latter dealt with theoretical problems of organic catalysis and 10 with technical catalysis. The remaining lectures dealt with the investigation results of catalysts and with various reactions. The Conference was opened by B. A. Kazanskiy. A. A. Balandin reported in his lecture on the correlation between the activity and the structure of the molecules and gave a survey of various catalytic reactions, starting from the multiplet theory.

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S. Z. Boginskiy reported on electron mechanism in organic chemistry. P. F. Vol'kenshteyn reported on the relative content of chemically adsorbed substances on the surface of semiconductors. A. N. Terenin and L. M. Royev reported on the investigation of the surface of oxidative and metallic catalysts by means of IR-spectra of adsorbed molecules. N. P. Keyer dealt with the influence of the reciprocation on the activating energy. S. L. Kiperman and I. R. Davydova reported on the computation of the activating energies of the hydrogenolysis of methylamine and five-membered cycles. Ye. I. Klabunovskiy reported on the possibility of applying the stereospecific catalysis on quartz-catalysts for the determination of the absolute configuration of molecules. In the course of a discussion, M. A. Landau reported on the rules in the catalytic activities of a number of catalysts discovered by him and V. V. Shchegkin. G. K. Bereskov and V. S. Chusalova reported on production methods of industrial catalysts. V. A. Royter dealt with the methods and standardization of the testing of catalysts. M. G. Slin'ko reported on contact apparatus. V. B. Fal'kovskiy, I. I. Ioffe and O. M. Todes reported on isothermal contact apparatus and computation methods for the processes taking place within the diffusion range. N. N. Shumilovskiy dealt with the automation of

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Problems of the Organic Catalysis

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catalytic processes. The Conference approved the activity of the Soviet po nauchnym osnovam podbora katalizatorov (Council of Scientific Fundamentals of the Catalyst Selection) and expressed the wish to intensify largely the work in the field of technical catalysis. It was recommended to concentrate the production of catalysts in several works and to establish their well equipped work sections. The necessity to publish a catalog of the most important catalysts produced in the USSR was pointed out in the resolution. It was found suitable to hold 3 All-Union Meetings in the near future. These are to deal with testing methods for industrial catalysts and the homogeneous and oxidative catalysis.

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11.5600
5.4700

AUTHORS:

Balandin, A. A., Klabunovskiy, Ye. I.,
Oberenok-Yakubova, A. P., Brusov, I. I.

TITLE:

Thermochemical Determination of Combustion Heats of
2-Ethyl Pyridine and 2-Vinyl Pyridine

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh
nauk, 1960, No. 5, pp. 784-786

TEXT: The purpose of the present paper was to obtain thermochemical data
for the calculation of the thermochemical equilibrium in the catalytic

dehydrogenation of $\text{C}_6\text{H}_4\text{NC}_2\text{H}_5 \xrightarrow{-\text{H}_2} \text{C}_6\text{H}_5\text{NCH}-\text{CH}_2$. The experiments were
carried out in a new calorimeter designed by J. Coops et al. (Ref. 1).
Combustion took place in a bomb calorimeter developed at the Termi-
cheskaya laboratoriya im. V. P. Luginina MGU (Thermal Laboratory imeni
V. P. Luginin of Moscow State University). The measuring technique is
described in a paper by S. M. Skuratov et al. (Ref. 3). The calorific

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B004/B066

Thermochemical Determination of Combustion

Heats of 2-Ethyl Pyridine and 2-Vinyl Pyridine

value of the calorimeter system was determined with an accuracy of 0.02 - 0.03 per cent by means of benzoic acid supplied by Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii im. D. I. Mendeleyeva (All-Union Scientific Research Institute of Metrology imeni D. I. Mendeleyev). Because of the easy polymerizability of 2-vinyl pyridine,

the substances investigated were prepared immediately before combustion, distilled, and filled into ampuls. Special attention was paid to the purity of the substances. 2-Ethyl pyridine was obtained by hydrogenation of 2-vinyl pyridine, which resulted from condensation of α -picoline with paraformaldehyde and from dehydration of the resultant alcohol on alkali. The physical data of both substances are compared in Table 1 with data available in publications. When calculating the combustion heat (at 25°C), all corrections necessary were considered (Regnault-Pfaundler-Usov formula; correction according to E. W. Washburn, Ref. 14). Table 2 gives the following data for the two substances: heat of combustion, change ΔH_{298}° liquid of enthalpy on combustion with molecular oxygen at 1 atm to form CO_2 , H_2O , and N_2 . The formation heat of ethyl pyridine was found to be 0.69 kcal/mole and that of 2-vinyl pyridine

Card 2/3

PATRIKEYEV, V.V.; BALANDIN, A.A., akademik; KLABUNOVSKIY, Ye. I.; MARDASHEV,
Yu.S.; MAXIMOV, G.I.

Selectivity towards optical isomers of adsorbents formed in the
presence of bacteria. Dokl.AN SSSR '132 no.4:850-852 Je '60.
(MIRA 13:5)

1. Institut organicheskoy khimii im. N.D.Zelinskogo Akademii nauk
SSSR.

(Adsorbents) (Isomers)

BALANDIN, A.A.; KLABUNOVSKIY, Ye.Ia.; LITVIN, Ye.P.

Composition of butenes formed in the catalytic dehydration of
2-butanol. Izv.AN SSSR.Otd.khim.nauk no.10:1863-1870 O '61.
(MIRA 14:10)

1. Institut organicheskoy khimii im. M.D.Zelinskogo AN SSSR.
(Butene) (Butanol)

KLABUNOVSKIY, Ye.I.; VOLKOVA, L.M.; AGRONOMOV, A.Ye.

New method for obtaining stereospecific silica gels. Izv.AM
SSSR.Otd.khim.nauk no.11:2101 N '61. (MIRA 14:11)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Silica)

BALANDIN, A.A.; KLABUNOVSKIY, Ya.I.; ANTIK, L.V.

Synthesis and transformations of dihydroxyanthrylene-naphthoquinones (stereochemistry of catalysis). Izv. AN SSSR Otd.-khim.nauk no.12:2189-2192 .) '61. (MIRA 14:11)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Anthracene) (Naphthoquinone)

KLABUNOVSKIY, Ye.I.; BALANDIN, A.A.; OODUNOVA, L.F.

Chromatographic separation of menthol. Izv. AN SSSR Otd.khim.nauk
no.12:2243-2244 D '61. (MIRA 14:11)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Menthol)

S/195/61/002/001/001/006
B101/B216

AUTHORS: Balandin, A. A., Klabunovskiy, Ye. I.

TITLE: Steric position of atoms, and catalysis (on the occasion
of the 100th birthday of N. D. Zelinskiy)

PERIODICAL: Kinetika i kataliz, v. 2, no. 1, 1961, 3-8

TEXT: On the occasion of the 100th anniversary of N. D. Zelinskiy's
birthday, the authors give a survey of problems of catalysis and
stereochemistry, which had been studied by Zelinskiy and further
investigated by his successors. Zelinskiy made detailed investigations
of the stereoisomerism of derivatives of di- and tribasic organic acids,
and studied the optical activation of crystallization of dimethyl
dihydroxy glutaric acid. Basing on stereochemical considerations,
Zelinskiy arrived at the following concept of heterogeneous catalysis:
"The deformation of molecules occurs under the influence of the force
field present on the active surface of the catalyst, this force field
influencing the configuration of particles and rendering them ready to
interact ...". From this concept, A. A. Balandin developed his multiplet

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B101/B216 ✓

Steric position of atoms, and ...

theory of catalysis (Ref. 5: Khim. nauka i promyshlennost', 4, 655, 1959), which assumes the highest possible agreement between the structure of the reacting molecules and the surface structure of the catalyst. A multiplet complex is formed between the reacting atom group and the catalyst without deformation of valency angles. It is mentioned that N. D. Zelinskiy discovered the metallic dehydrogenation catalysts with face-centered crystal lattices in 1911. The principles of stereochemical influencing of catalytic processes are illustrated, using the hydrogenation of cis- and trans-olefins and the conversion of maleic acid to fumaric acid on palladium as examples. The multiplet theory enables classification of all known catalytic reactions. About 2000 types of catalytic reactions were laid down, many of which have not been realized so far. The equations of the multiplet theory permitted advance calculation as to which out of the 15 possible modes of decomposition of cyclohexanol would be most likely on activated carbon, the prediction being confirmed experimentally (Ref. 15: A. A. Balandin et al. Izv. AN SSSR, Otd. khim. nauk., 1960, 614). The steric specificity of enzyme catalysis is also explained by the multiplet theory. It is mentioned that Zelinskiy verified the organic origin of petroleum postulated by reason of the optically active

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APPROVED FOR RELEASE: 09/17/2001
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CIA-RDP86-00513R000722930005-

KLABUNOVSKIY, Ye.I.; BALANDIN, A.A., akademik, PETROV, Yu.I.

Hydrogenation of carboxylic acids over a colloidal palladium catalyst.
Dokl. AN SSSR 139 no. 2:377-380 Jl '61. (MIRA 14{7})

1. Institut organicheskoy khimii im N.D. Zelinskogo AN SSSR.
(Acids, Organic) (Hydrogenation)

KANAY, G.Kh.; KLABUNOVSKIY, Ye.I.; GATILOV, Yu.P.; KHODAKOV, G.S.

Separation of quaternary arsonium compounds into optical antipodes by asymmetric adsorption on natural dissymmetric adsorbents. Dokl. AN SSSR 139 no.5:1112-1113 Ag. '61.
(KRA 14,18)

1. Institut organicheskoy khimii AN SSSR, g. Kazan', i
Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.
Predstavлено академиком Н.А. Арбусовым.
(Arsonium compounds) (Adsorption)

KLABUNOVSKIY, Ye.I.; ANTIK, L.V.; YELERSKAYA, N.A.

Polarographic determination of 9,10-dihydroanthrylene-1',4'-naphthoquinone. Izv. AN SSSR. Otd. khim. nauk no.10:1877-1880 0 '62.
(MIRA 15:10)

1. Institut organiceskoy khimii im. N.D.Zelinskogo AN SSSR i
Institut obshchey i neorganicheskoy khimii im. N.S.Kurnakova
AN SSSR.
(Naphthoquinone) (Polarography)

KLABUNOVSKIY, Ye.I.; AGRONOMOV, A.Ye.; VOLKOVA, L.M.; BALANDIN, A.A.

Adsorption of racemic and (+) -isomers of 2-butanol on
stereospecific silica gels. Izv.AN SSSR.Otd.khim.nauk no.2:
228-234 F '63. (KJIA 16:4)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR 1
Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
(Butanol) (Adsorption) (Silica)

KLABUNOVSKIY, Ye.I.; BALANDIN, A.A.; GODUNOVA, L.P.

Inversion of 1-menthone. Izv.AN SSSR Otd.khim|nauk no.5:686-890
Mv '63. (MIRA 16:8)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Methanone—Optical properties)

KLABUNOVSKIY, Ye.I.; ANTIK, L.V.; RUBTSOV, I.A.; SMIRNOVA, M.G.

Example of a catalytic asymmetric synthesis in the series of
bicyclic compounds. Izv. AN SSSR Ser.khim. no.10:1881 O '63.
(MIRA 17:3)

1. Institut organicheskoy khimii im. M.D.Zelinskogo AN SSSR.

ZUBAREVA, N.D.; OBEREMOK-YAKUBOVA, A.P.; PETROV, Yu.I.;
KLABUNOVSKIY, Ye.I.; BALANDIN, A.A.

Determination of the heats of combustion of DL- and L-mandelic
acids. Izv. AN SSSR. Ser. khim. no.12:2207 D '63.
(MIRA 17:1)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

KLABUNOVSKIY, Ye.I.; YEZERSKAYA, N.A.

Polarographic reduction of 2-ethylanthraquinone in dimethylformamide.
Zhur.anal.khim. 18 no.8:989-993 Ag '63. (MIRA 16:12)

1. N.D.Zelinsky Institute of Organic Chemistry and N.S.Kurnakov
Institute of General and Inorganic Chemistry, Academy of Sciences,
U.S.S.R., Moscow.

KLABUNOVSKIY, Ye. I. (Moskva)

Ways of the formation of optically active organic compounds
in nature. Usp. sovr. biol. 55 no. 3:378-390 My-Je'63
(MIRA 1783)

ACCESSION NR: AP4034043

S/0020/64/155/006/1449/1451

AUTHOR: Kravchenko, N. A.; Zrealov, V. P.; Klabunovskiy, Ye. I.

TITLE: On enzymatic and optical changes of activity in lysozyme upon irradiation with electrons and protons

SOURCE: AN SSSR. Doklady*, v. 155, no. 6, 1964, 1449-1451

TOPIC TAGS: lysozyme, lysozyme enzymatic activity, lysozyme specific rotation, electron irradiation, proton irradiation, proton energy, electron energy, lysozyme chromatography

ABSTRACT: This activity was studied on crystalline lysozyme from chicken eggs under the influence of comparatively rapid electrons and protons with insignificant ionization losses (2-3 Mev. cm²/g). Prior to irradiation the ampoule with the lysozyme was evacuated for 1 hour; some tests were conducted without evacuation. For spectroscopic determination a solution of 4 µg/ml was used. The activity was determined with acetonized Micrococcus lysodeikticus powder in a 6.2 pH phosphate buffer. Details on the polarimetric conditions are given; a 1% lysozyme solution was used. The protons had an energy of 665 Mev. (synchrocyclotron). Results showed

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ANTIK, L.V.; KLABUNOVSKIY, Ye.I.; BALANDIN, A.A.; LOPATIN, B.V.; PETUKHOV, V.A.

Synthesis and transformations of dihydrodioxotribenzotriptycene.
Izv. AN SSSR Ser. khim. no.7:1260-1267 Jl '64.

(MIRA 17:8)

1. Institut organicheskoy khimii imeni Zelinskogo AN SSSR.

SSD(+) / SSD(-) / AFTR / 200(+) 8/0190/65/006/008/145/1492
ACCESSION NR: AP5003799

AUTHOR: Klabunovskiy, Ye. I.; Petrov, Yu. I.; Shvartsman, M. I.

TITLE: Optically active polymers based on esters of methacrylic and itaconic acids

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 6, no. 8, 1964, 1487-1492

TOPIC TAGS: ester, macromolecular chemistry, polymerization, optic properties, optic method

ABSTRACT: Optically active polymers: (+)-poly-2-methylbutylmethacrylate, (-)-polymethylmethacrylate, and (+)-poly-di-(2-methylbutyl) itaconate were synthesized by the polymerization of the corresponding optically active esters of methacrylic and itaconic acids. The optically active polymers were synthesized by free-radical polymerization (catalyzed by benzoyl peroxide), anionic polymerization (catalyzed by phenylmagnesium bromide), and thermal polymerization (by heating to 200°). Their properties (softening point, specific rotation, and intrinsic viscosity) were investigated. The polarometric method was shown to be suitable for the study of

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L-20705-65

ACCESSION NR: AP5003799

polymerization kinetics, using the polymerization of (+)-2-methylbutyl methacrylate as an example. Relationships were found between the specific rotation and the time, degree of polymerization, and molecular weight.
Orig. art. has: 1 formula, 4 graphs, 1 table.

ASSOCIATION: Institut organicheeskoy khimii im. N. D. Zelinskogo AN SSSR
(Institute of Organic Chemistry, AN SSSR)

SUBMITTED: 03Oct63

ENCL: 00

SUB CODE: OC, OP

OTHER: 018

JPRS

NO REF Sov: 003

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KLABUNOVSKIY, Ye.I.; ANTIK, L.V.; BALANDIN, A.A.

Polarographic behavior of dihydrodioxobenzotriptcene. Izv.
AN SSSR. Ser. khim. no.6:971-978 Je '64.

(MIRA 17:11)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

ISAGULYANTS, G.V.; DERBENTSEV, Yu.I.; KLABUNOVSKIY, Ye.I.; BALANDIN, A.A.

Mechanism underlying the catalytic dehydration of 2-butanol
on the surface of aluminum oxide. Izv. AN SSSR. Ser. khim.
no.6:985-990 Je '64. (MIRA 17:11)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

KLABUNOVSKIY, Ye.I., ANTIK, L.V.; BALANDIN, A.A.

Polarographic reduction of dihydrodioxotribenzotrypticene
in dimethylformamide. Izv. AN SSSR. Ser. khim. no.8:1412-
1416 Ag '64. (MIRA 17:9)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

ANTIK, L.V.; KLABUNOVSKIY, Ye.I.; BALANDIN, A.A.; KARELE, B.Ya.

Synthesis and transformations of dihydrodioxodibenzotriptycene.
Izv. AN SSSR. Ser. khim. no.8:1470-1475 Ag '64. (MIRA 17:9)

1. Institut organicheskoy khimii im N.D. Zelinskogo AN SSSR.

KLABUNOVSKIY, Ye.I.; BALANDIN, A.A.; MAMEDZADE, R.Yu.; ANTIK, L.V.;
CORSKAYA, L.A.

Dependence of polarographic characteristics on the structure
of quinones of the triptycene series. Izv. AN SSSR. Ser. khim.
no.8:1554 Ag '64. (MIRA 17:9)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

KLABUNOVSKIY, Ye.I.; BALANDIN, A.A.; ANTIK, L.V.

Hydrogenation of dihydrocyclobenzotriptycene. Izv. AN SSSR. Ser. khim.
no.9:1610-1614 8 '64. (MIRA 17:10)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

KLABUNOVSKIY, Ye.I.; SHVARTSMAN, M.I.; PETROV, Yu.I.

Application of optical rotatory dispersion in the study of the structure of optically active polymers. Vysokom.sod. 6 no.9:1579-1584 S
'64. (MIRA 17:10)

1. Institut organicheskoy khimii imeni Zelinskogo.

KLABUNOVSKIY, Ya. I., BALANDIN, A.A., ANTIK, L.V.

Comparative hydrogenation of quinones of complex special structures.
Inv. AN SSSR. Ser. khim. no.10:1785-1792 O '64. (MIRA 17:12)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

MAMED-ZADE, R.Yu.; KLABUNOVSKIY, Ye.I.; BALANDIN, A.A.

Catalytic hydrogenation of tetrahydrodicoxo-(dihydroanthrylene) triptycene. Izv. AN SSSR. Ser. khim. no.9:1570-1575 '65.

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

LIVSHITS, V.S.; KRYLOV, O.V.; KLABUNOVSKIY, Ye.I.

Heterogeneous catalytic polymerization of the optical isomers of propylene oxide. Dokl. AN SSSR 161 no.3:633-636 Mr '65.

1. Institut khimicheskoy fiziki AN SSSR. Submitted September 5, 1964. (MIRA 18:4)

KLABUNOVSKIY, Ye.I.; BALANDIN, A.A., akademik; MAMONOV, R.Yu.

Stereochemical approach to the study of the geometry of the
active surface of catalysts. Dokl. AN SSSR 162 no.4:853-856
Je '65.

(MIRA 18:5)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

Suppression of the analgesic action of morphine and of certain analgesics by tetracylthiuron disulfide in guinea pigs. Hedvika Lomáková-Kunčová, L. Klábesová, and M. Kročík (Palacký Univ., Olomouc, Czechoslovakia). *Acta Med. Pol. Med. Univ. Masaryk. et Palach.* 14, 241-4 (1963) (Eng.-Ab. summary).--Report. detail. the stimulatory action of tetracylthiuron disulfide (TTD) on spinal cord. 0.1-0.25 g. of TTD being administered for 1-3 days to guinea pigs of 400-600 body wt. Regnier's method was used to det the suppression of analgesic effect caused by morphine, antipyrine, acetophenetidin, acetylpromazine and a combination of antipyrine plus Na phenobarbital. Results indicate that TTD suppresses analgesic action of above mentioned substances probably by stimulating the reflex excitability of the spinal cord. Bohdán Jelínek

Klobusay L

/ Prolongation of the action of chloral hydrate and ether aldehyde by tetraethylthiuram disulfide. J. Pharmacol. Exptl. Therap., 1951, 100, 101-106.

Univ. Chicago, Chicago, Illinois, U.S.A.

Received April 26, 1951

This group of mice of 30-35 g. body wt. received ether aldehyde (TETD) in a single dose of 0.1 ml. of tetraethylthiuram disulfide (TTD) in a single dose of 0.01 ml. body wt. Another group received the same TTD. To the fed group 5 hr. later was administered ether aldehydically 0.13 g./g. body wt. of chloral hydrate or to the fed group 0.9 g./kg. on the 8th day. The same quantity of chloral hydrate as given to the 3rd group was given. Similar effects were formed on those mice where ether aldehyde (0.8 ml./kg. body wt.) was used as anesthetic. Anesthetic (hypnotic) action in the control group set in somewhat earlier and was of shorter duration than in animals previously treated by TTD. Both drugs may be contraindicated in animals previously treated by TTD.
Robert Jellack

KLABUSAY, L.

Effect of *N-methyl-N-phenyl-dimethylamine (TTD)* on blood clotting. H. Zemánek-Kunovský, L. Klabusay, and M. Kroutík (Praha) Univ., Olomouc, ČSSR. Biologický list. 30-7(1964).—Chronic administration of TTD prolonged the time of blood clotting in rabbits. When 0.1-0.20 g. TTD/kg. was administered for 4 days, this increased clotting time was observed even after 2-4 days. When a total of 3 g. TTD/kg. was given in two successive days, the increased clotting time was demonstrable after 3 days.
Ondřej Šebek

KLAUSAY, L.

KEMANKOVA-KUMEROVA, H.; KLAUSAY, L.; KROUTIL, M.

Effect of tetraethylthiuram disulfide on blood coagulation in rabbits. Chesk. fisiol. 3 no.1:59-68 1954.

1. Farmakologicheskiy institut meditsinskogo fakulteta universiteta imeni Palatskogo, Olomouc.

(DISULFIRAM, effects,
on blood coagulation in rabbits)
(BLOOD COAGULATION, effect of drugs on,
disulfiram in rabbits)

KLABUNAY, L.

Toxicity and effect of derivatives of meconic acid. Czech. farm.
3 no. 4:134-136 Ap '54.

1. Z farmakologického ústavu lékařské fakulty PřF v Olomouci.
Prednosta: MUDr J. Lenfeld, pov. vedoucí.
(OPITU)

*meconic acid deriv., tox. & eff.)

LENFELD, Jiri; KLABUSAY, Lambert; EROUTIL, Mario

*Effect of Melilotus officinalis tea and its comparison with pelenta.
Lek. listy, Brno 9 no.20:459-461 15 Oct 54.*

*1. Z farmakologickeho ustavu lekarske fakulty Palackeho university
v Olomouci. Vedouci ustavu: Dr. Jiri Lenfeld.*

(COUMARIN, derivatives,

*ethyl biscoumacetate, comparison with Melilotus
officinalis extract)*

(PLANTS,

*Melilotus officinalis extract, comparison of anticoagulant
properties with ethyl biscoumacetate)*

(ANTICOAGULANTS,

*Melilotus officinalis extracts, comparison with ethyl
biscoumacetate)*

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CIA-RDP86-00513R000722930005-3"

KLAUNZAY, L.; TRNAVSKY, K.; KRCUTIL, M.

Contribution to the mechanism of spreading factor activity.
Scripta med., Brno 27 no.3-4:61-69 1954.

1. Z I. interni kliniky a farmakol. ustanov lek. fak. v Olomouci.
Prednosta: prof. MUDr. P. Lukl, MUDr. J. Lenfeld.
(HYALURONIDASE, effects
on spreading, mechanism of action in rabbits)

ALAHU KRAJET
CZE C1

[Unpublished] effects of prostaglandin acid "M" (Dr. J. Kloboucky and M. Krejci, Scripta Med. Fac. Med. Univer. Praes., v. Palack, 27, 239-70 (1964).—No effect was observed on either isolated rabbit intestine or uterus. However a prolongation and potentiation of the effect of atropine on these tissues was noted. Similar effects were observed on the blood pressure in combination with adrenalin: a moderate and short-lasting depression, and a diminution of artificially elevated blood pressure. A slight dilatation of blood vessels, an elevation of respiration frequency and amplitude, and tonic effect, were noted when given intraperitoneally to white mice in doses of 0.005 g./kg. There was no analgesic nor antipyretic influence, nor were there any local irritating effects.

Otto R. Lobstein

1. z Farmakologického ústavu lék. fak. MU v Olomouci; vedoucí
ústavu MUDr. Jiří Lenfeld.

TRNAVSKY, E., KLAUHAY, L.

Effect of trichloroamine and N,N-bis(2-chloroethyl)-2-naphthylamine
on experimental arthritis; first communication.
Vnitr. lek., Brno 1 no.4:248-253 Apr 55.

1. Z I. vnitralni klinicky a far makologicko ustanov lekarske fakulty
v Olomouci, prednosta: prof MUDr P. Lukl, MUDr J. Lenfeld
Olomouc, Pierlingrova 10.

(ARTHRITIS,experimental

eff. of 2,4,2, trichloroethylamine HCl & N,N-bis
(2-chloroethyl)-2-naphthylamine in rats

(NITROGEN MUSTARDS, effects

N,N-bis(2-trichloroethyl)-2-naphthylamine & 2,2,2,
trichloroethylamine on exper. arthritis in rats

(NAPHTHALENE,derivatives

N,N-bis(2-chloroethyl)-2-naphthylamine, eff. on exper.
arthritis in rats.

KLABUSAY, L., VYKYDAL, M.; TRNAVSKY, K.

Mechanism of anti-rheumatic effect of nitrogen mustard.
Vnitr. lek., Brno 1 no.11:845-850 Nov 55.

1. Z farmakologickeho ustavu a I. vnitri klinicky lek. fak.
PU v Olomouci, prednosta: z. st. doc. MUDr. J. Lenfeld, prof.

MUDr. P. Lukl. MUDr. L. Kl., Olomouc, Pierlingerova 10.

(NITROGEN MUSTARDS, therapeutic use.)

(NITROGEN MUSTARDS, effects, .)

on exper. rheum. arthritis.)

(ARTHRITIS, RHUMATOID, experimental,
eff. of nitrogen mustards.)

TOMAVSKY, K.,; KLABUSAY, L.,; KROUTIL, M.

The role of vessels and nerves in antihyaluronidase activity.
Acta med. hung. 7 no.3-4:279-285 1955.

1. 1st department of medicine and the department of pharmacology,
Palacky University medical school, Olomouc, Czechoslovakia.

(HYALURONIDASE, antagonists,
eff., role of nerves & blood vessels)

(NERVOUS SYSTEM, physiology,
anti-hyaluronidase action, role in eff. of various
hyaluronidase-antag.)

(CARDIOVASCULAR SYSTEM, physiology,
same)

KLA BUSAY L

MD

(Experimental and clinical re-evaluation of the antihemorrhagic effect of *Congealetis myrsinifolia* and *Aconitum variegatum*.
L. Klabanov, M. Kremnitz, J. Lendeld, K. Fravariš, M.
Výježdaj, M., J. Ženáček (Palackého Univ., Olomouc,
Czech.). Časopis Lékařů Českých 94, 734-43 (1964).
Freshly pressed, and subcutaneously administered ext. from
A. variegatum (I) suppressed the hyaluronidase (II) edema in
intact rats; whereas in adrenalectomized rats it caused a
slight enhancement of the II edema. The ext. from *C.
myrsinifolia* (III) acted only slightly in suppressing the II edema
in intact rats but enhanced the edema in adrenalectomized
animals. Separate (IV). Na citrate, and tannochlorate also
inhibited II edema. Periarthritis arthritis was induced and its
course observed daily for 13 days. In all groups of untreated
intact rats the development of arthritis continued during
this time. Daily subcutaneous treatment with 3 ml. (per kg.
body wt.) of a 5% ext. of III or I or daily administration of
10 mg. IV, either subcutaneously or orally, strikingly im-
proved the symptoms in intact rats; the III group was par-
ticularly healed on the 8th day. The course of arthritis in the
untreated adrenalectomized groups was similar to the con-
trols or slightly better. III was without curative effect in
adrenalectomized rats; I slightly impaired the course of
arthritis in adrenalectomized rats. Both subcutaneous and
oral IV showed curative effect even in the adrenalectomized
group. IV was ineffective when the arthritis was stabilized
by a 2nd administration of HCHO. Antiarthritic effect of
III and I, but not of IV, appears mediated by the adrenals.
Twenty patients with arthritis or other diseases of joints
were treated with III tincture (20 drops 3 times a day up to
200 ml.). No masking therapeutic effect was apparent.

CZECHOSLOVAKIA/Pharmacology. Toxicology. Therapeutic Drugs of Enzymatic Origin

Abs Jour : Ref Zhur - Biol., No II, 1958, No 52036

Author : Lenfeld J., Klabusay L.

Inst : -

Title : Rhonidase

Orig Pub : Vojen.-med. Zh., 1956, No 1, 94

Abstract : Rhonidase (I), a protein preparation from bull's testicles possesses hyaluronidase activity. I-a homogenous, finely ground powder of light yellow color is recommended for external application in ulcers and Dupuytren contractures, chronic indolent ulcers, etc. It is administered daily for periods of 15-60 days according to the effect. The dose of administered I is determined by the area of the lesion. I is spread on a sterile pad of gauze, moistened by a sterile solution and is applied to the lesion; the gauze is covered with wax paper. The administration of I is contraindicated in tuberculosis and malignant tumors.-- D.A. Rystroletov

Card : 1/1

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COUNTRY : CZECHOSLOVAKIA
CATEGORY : Pharmacology, Toxicology. Different Preparations

ABSTRACT : Ref Biol., No. 12 1958, No. 56767

AUTHOR : Vylydal, M., Klabusay, L.

INST. : -
TITLE : The Influence of Trichlorethylamine on the Excretion of Active 11-Oxysteroids (The Problem of the Mechanism of Action in Rheumatology)

ORIG. PUB. : Vnitri Lekarstvi, 1956, Vol. 2, no. 12, 1073-1081

ABSTRACT : The original level of 11-oxysteroids in the urine of patients with progressive polyarthritides was considerably lower than in the control group (patients with other diseases). Single injection of 4 mg of trichlorethylamine (I; III) to patients with progressive polyarthritides led to a much smaller content of 11-oxysteroids in the urine than in the controls. The duration of heightened excretion of 11-oxysteroids in patients of the control group was 48 hours, but only 2 hours in the experimental group. Upon repeated administrations of I its effects on the excretion of 11-oxysteroids were

Palacky Univ
Olomouc, Czech

KL4345474.1.

CZECHOSLOVAKIA/Human and Animal Physiology - General Problems

V-1

Aba Jour : Ref Zhur - Biol., No 2, 1958, 8240

Author : Klabusay, L., and Trnavsky, K.Inst : -
Title : The Role of the Spleen in Humoral Regulation

Orig Pub : Vnitri lekarstvi, 1956, 2, No 11, 967-971

Abstract : A review of the new clinical and experimental data on the internal secretory activity of the spleen and on the interrelationship between the spleen and certain glands of internal secretion (thyroid, suprarenal and pituitary glands.)

Bibliography: 26 titles.

Card 1/1

LENFELD, J.; KLABUSAY, L.; TRNAVSKY, K.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722930005-

Favorable effect of serotherapy of tetanus with hyaluronidase.

Cesk. fysiol. 5 no.1:64-69 26 Mar 56.

1. Farmakologicky ustav lekarske fakulty PU, Olomouc.
(TETANUS, experimental,
eff. of hyaluronidase in serother. (Cs))
(HYALURONIDASE, effects,
on exper. tetanus, in serother. (Cs))
(SEROTHERAPY, in various diseases,
exper. tetanus, with hyaluronidase (Cs))

CZECHOSLOV/KL/Pharmacology and Toxicology. Narcotics

V-1

Abs Jour : Rof Zhur - Biol., No 15, 1958, No 71068

Author : Lenfeld J., Klabusec L., Malinsky J.

Inst : -

Title : Late Manifestations of the Stopethyl Phenomenon

Orig Pub : Ceskoslov. fysiol., 1956, 3, No 2, 231-234

Abstract : Stopethyl (tetraethylthiuron disulfide) (8), which is used for the treatment of alcoholism, was administered to guinea pigs in a dose of 0.25 g/kg during 3 days. After 28 days, a 20 percent solution of ethyl alcohol (E) was injected intraperitoneally in a dose of 1 ml/100 g. (at the end of the experiment, 1.5 ml/100 g) to the same animals, once in 2 weeks during 73 days. Two weeks after the last injection of E, a histologic examination was effected. Discovered were: injuries of the liver (perivasculär infiltrates, increased acidophilia of the liver cells, necrotic foci with proliferation, and others), kidneys (hyperemia, interstitial and perivasculär infiltrates), and lungs (in 50 percent of

Card:

: 1/2

FARMAKOLOGICKY A HISTOLOGICKO-EMBRYOLOGICKY
USTAV LF PU

CZECHOSLOVAKIA/Pharmacology - Toxicology - Various Preparations.

V

Abs Jour : Ref Zhur Biol., No 4, 1959, 18731

Author : Kroutil, M., Klabusay, L.

Inst :

Title : Pharmacologic Action of Meconic Acid and Its Derivatives

Orig Pub : Ceskosl. farmac., 1956, 5, No 4, 226-230

Abstract : Meconic acid and ethers of meconic acid and meconyl-urea do not produce an effect on isolated intestines. Meconyl-urea (I) and meconylthyoursa (II) induce a short-time increase of the intestinal tonus of rabbit with a decrease of the contraction amplitude. The investigated substances did not effect isolated uterus. I and especially II postponed the beginning of convulsions in toads in introduction of strychnine. I in doses of 1 mg/kg decreases the blood pressure by 8-10%, in doses of 10 mg/kg by 50%; the effect is of short duration. II induces a short-time increase of blood pressure in a dose of

Card 1/2

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CZECHOSLOVAKIA/Pharmacology - Toxicology - Various Preparations.

V

Abs Jour : Ref Zhur Biol., No 4, 1959, 18731

1 mg/kg - to 4/5 of the initial one, in doses of 30 mg/kg - to 10-15%. In animals with blood pressure decreased by means of bloodletting, both preparations in intravenous introduction in doses of up to 5 mg/kg considerably increase the blood pressure. -- I.A. Prolova

Card 2/2

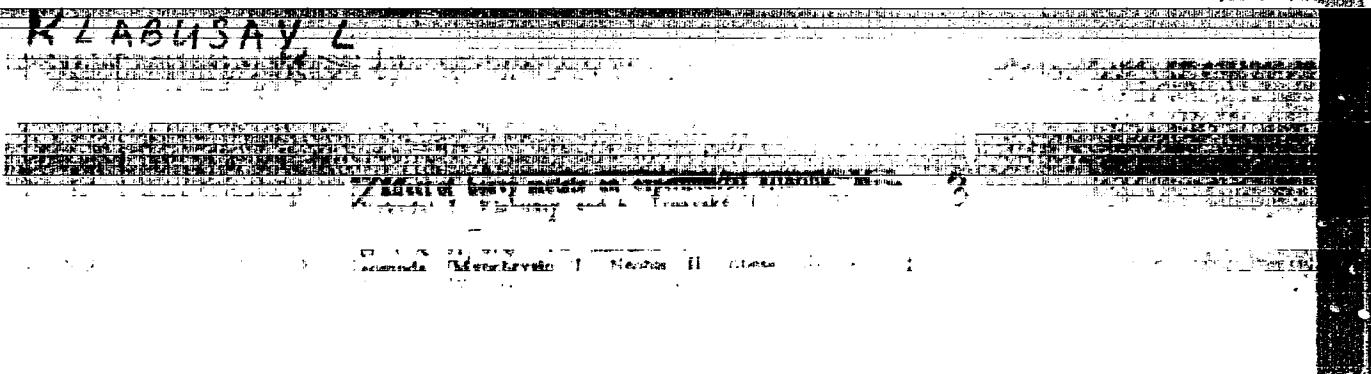
✓ 1981. Mode of action of heavy metals on experimental arthritis

M. Vykretel I. Klafray and K. Trnovská, *International Journal of Immunopharmacology*, 1986, 6, No. 5, pp. 71-76. Kharkiv and pharman, USSR
Inst. of Immunobiology, Czechoslovakia. The effects of As, Cu, Hg, Bi and Cd on formaldehyde arthritis in rats have been studied. The results show that the effect of As on the course of the disease is similar to that of Cu and Cd. The effect of Hg is less pronounced than that of As. The effect of Bi is similar to that of Cu and Cd. The effect of Cd is similar to that of As. The effect of As on the course of the disease is similar to that of Cu and Cd. The effect of Hg is less pronounced than that of As. The primary excretion showed that the glomerular permeability of As was higher than that of Bi and Cu treatment was significantly higher than that of As. As being most effective in producing the change in the glomerular permeability as high as that found following As. Cd and Cu treatment were found to have no effect on the glomerular permeability. (U.S.S.R.)

L. W. Lankford

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CIA-RDP86-00513R000722930005-3"

CZECHOSLOVAKIA/General Problems of Pathology - Inflammation.

U.

Abs Jour : Ilov Zhur - Biol., No 21, 1958, 98062

Author : Trnaveky, K., Slat'aj, S., Klabusay, L.

Inst :

Title : The Influence of Lactation on the Course of Experimental Inflammation.

Orig Pub : Vnitri Lekarstvi, 1958, 4, No 2, 99-103.

Abstract : In rats, after delivery, inflammation was produced by introduction of formaldehyde into the periartritic region. In a chronic course of inflammation, no differentiation was noted between nursing and non-nursing animals. In acute inflammation, the course of the process is easier in nursing, and more severe in artificial termination of lactation. The most severe course of inflammation was observed with introduction of propionate testosterone into the organism. Secretion of 11-oxygenated corticoids (I) was reduced.

Card 1/2

- 2 -

DOLMÉCH, R.; KALINA, J.; KLAUBUSAY, L.

Neuroleptics and hormones in the treatment of burns. Acta chir.
plast. 1 no.2; 115-139 1959.

1. Medical Department, General Hospital in Ostrava (Czecho-
vakia), Director: J. Cerny, M. D.; The Burns Unit of the Depart-
ment of Surgery, General Hospital in Ostrava, Director: K.
Typovsky, M.D.

(BURNES ther.)

(HIBERNATION ARTIFICIAL ther.)

(HORMONES ther.)

VYKIAL, M.; KIAKUAY, I.; DOUBRAVSKY, Ya. [Doubrovskiy, J.]

Significance of experimental formaldehyde arthritis. Terap. arkh. 31 no. 2:43-50 P '59. (MIRA 12:1)

1. Iz 1-y kliniki po vnutrennim boleznyam (sav. - prof. Pavel Ink'l) Farmakologicheskogo instituta (sav. - dots. Vrshi Lenfel'd) i Rentgenologicheskogo instituta (sav. - dots. Ignat Stratil) Universiteta imeni Palatskogo v Olomouce, Chехословакия.

(ARTHRITIS, exper.
formaldehyde induced (Rus))

DOLECKÝ, R.; KUDRYAS, L.; KLABUSAY, L.

Increased levels of antidiuretic hormone in serum and of aldosterone
in urine in burns. Česk.fysiol. 9 no.2:181-182 Mr '60.

1. Interní oddelení a oddelení pro lečbu popálených KUMZ, Ostrava.
(BURNS metab)
(ALDOSTERONE urine)
(VASOPRESSIN blood)

KOCIAN, I.; VYKYDAL, M.; HLAVUSAY, L.; STEPANEK, V.

Intra-articular use of plastic substances in rheumatology. Acta
chir.orthop.traum.cech. 27 no.5:422-427 0 '60.

1. Vnitri oddeleni KUMZ, Kejetin, prednosta MUDr. I.Kocian.
Interni klinika PU, Ostrava, prednosta prof. MUDr. P.Luki. Vnitri
oddeleni KUMZ, Ostrava, prednosta MUDr. J.Cerny. Oddeleni central.
rtg KUMZ, Ostrava prednosta MUDr. J.Metelka.
(ARTHRITIS RHEUMATOID ther)
(POLYVINYLIC ther)

DOLECKEK, R.; KALINA, J.; KLABUSAY, L.; MENDRYAS, L.

Significance of the organism's reaction to burns and the
possibility of influencing it. Acta chir. plast. 3 no.1:35-48
'61.

1. Medical Department (Director J.Cerny M.D.) and Burns Unit
of the Surgical Department (Director Doc. K. Typovsky M.D.)
of the Regional Hospital in Ostrava (Czechoslovakia).
(BURNES physiol)

KLABUSAY, LAMBERT

SURNAME (In caps); Given Name

Country: Czechoslovakia

5

Academic Degree:

Internal Department of KUHZ [abbreviation not identified] (Vnitřní oddělení KUHZ), Ostrava; Chief (Prednosta): Prim MUDr Jiri Černý; and Kraj Endocrinological Out-Patients' Department (Krajka endokrinologická ambulance), Ostrava; Physician-in-ordinary (Ordinář): MUDr Rajko Dolcek, C Sc.

Source: Brno, Vnitřní Lekarství, Vol VII, No 8, August 1961, pp 900-909

Data: "Clinical Findings and Indexes of the Activity of the Endocrine Glands in 300 Obese Subjects."

Authors:

DOLCEK, Ordinář MUDr, C Sc

KLABUSAY, Lambert, MUDr